7 Electrical Parts List

7-1 MAIN PBA

Capacitor / Resistor tolerance:
D: 0.5 %, F: 1 %, G: 2 %, J: 5 %, K: 10 %, M: 20 %, Z: +80 %, -20 %

	Ref. No.	Description	SEC Code	Remark
		PBA, PCB Assembly, MAIN	**JF92-00842A**	
		- Capacitors -		
	C1	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C2	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C3	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C4	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C5	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C6	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C7	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C8	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C10	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C11	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C12	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C13	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C14	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C15	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C16	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C17	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C18	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C19	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C20	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C21	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C22	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C23	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C25	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C26	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C27	Ceramic, Chip, 100 pF, J, 50 V, 2012	2203-000239	
	C28	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C29	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C31	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C32	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C33	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C34	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C35	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C36	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	

	Ref. No.	Description	SEC Code	Remark
	C37	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C39	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C40	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C41	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C42	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C43	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C44	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C45	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C46	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C47	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C48	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C49	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C50	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C51	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C52	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C53	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C54	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C55	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C56	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C57	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C58	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C59	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C60	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C61	Ceramic, Chip, 18 pF, J, 50 V, 2012	2203-000429	
	C62	Ceramic, Chip, 39 pF, J, 50 V, 2012	2203-000858	
	C63	Ceramic, Chip, 18 pF, J, 50 V, 2012	2203-000429	
	C65	Electrolytic, 10 µF, M, 25 V, GP	2401-000448	
	C66	Electrolytic, 10 µF, M, 25 V, GP	2401-000448	
	C67	Electrolytic, 10 µF, M, 25 V, GP	2401-000448	
	C68	Electrolytic, 10 µF, M, 25 V, GP	2401-000448	
	C69	Electrolytic, 10 µF, M, 25 V, GP	2401-000448	
	C70	Electrolytic, 22 µF, M, 25 V, GP	2401-000943	
	C71	TA, Chip, 1 µF, M, 10 V, 3216	2404-000291	
	C72	TA, Chip, 1 µF, M, 10 V, 3216	2404-000291	
	C73	Electrolytic, 470 nF, M, 50 V, GP	2401-001775	
	C74	Electrolytic, 100 µF, M, 16 V, GP	2401-000042	
	C75	Electrolytic, 100 µF, M, 16 V, GP	2401-000042	
	C77	Ceramic, Chip, 47 nF, K, 50 V, 2012	2203-000979	
	C78	Ceramic, Chip, 1 nF, K, 50 V, 2012	2203-000444	
	C79	Ceramic, Chip, 1 nF, K, 50 V, 2012	2203-000444	
	C80	Ceramic, Chip, 1 nF, K, 50 V, 2012	2203-000444	
	C81	Ceramic, Chip, 1 nF, K, 50 V, 2012	2203-000444	

	Ref. No.	Description	SEC Code	Remark
	C82	Ceramic, Chip, 1 nF, K, 50 V, 2012	2203-000444	
	C83	Electrolytic, 10 µF, M, 16 V, GP	2401-001807	
	C84	Ceramic, Chip, 68 nF, K, 25 V, 2012	2203-001142	
	C85	Ceramic, Chip, 120 pF, J, 50 V, 2012	2203-000316	
	C86	Electrolytic, 22 µF, M, 50 V, BP	2401-000958	
	C90	Ceramic, Chip, 100 nF, Z, 50 V, 2012	2203-000192	
	C91	Electrolytic, 3.3 µF, M, 50 V, BP	2401-001014	
		- Connectors -		
	P1	Header, 1 Wall, 10 P, 1R, 2.5 mm, STR	3711-002034	
	P2	Header, Box, 14 P, 1R, 2 mm, STR	3711-002815	
	P3	Header, Box, 12 P, 1R, 2 mm, STR	3711-002813	
	P4	Header, 22 P, 2R, 2 mm, STR	3711-002002	
	P5	Header, Box, 16 P, 2R, 2 mm, STR	3711-003340	
	P6	Header, 3 Wall, 6 P, 1R, 2 mm, STR	3711-000496	
	P7	Header, Box, 3 P, 1R, 2 mm, STR	3711-000907	
	SCK1	Socket-IC, 32 P, DIP, 2.54 mm	3704-000255	
		- Diodes -		
	D3	Switching, 100 V, 200 mA, 225 mW, 4 ns	0401-000116	
	D4	Switching, 100 V, 200 mA, 225 mW, 4 ns	0401-000116	
	D5	Switching, 100 V, 200 mA, 225 mW, 4 ns	0401-000116	
	D6	Switching, 100 V, 200 mA, 225 mW, 4 ns	0401-000116	
	D7	Switching, 100 V, 200 mA, 225 mW, 4 ns	0401-000116	
	D8	Switching, 100 V, 200 mA, 225 mW, 4 ns	0401-000116	
	ZD1	Zener, 5.1 V, 5.1V-5.7V, 1W, PSM	0403-000464	
	ZD2	Zener, 3.9 V, 5 %, 1 W, 1N4730	0403-000521	
	ZD3	Zener, 3.9 V, 5 %, 1 W, 1N4730	0403-000521	
		- ICs -		
	U1	BF6118X	JF09-10053A	
	U2	EPROM, 27010, 128k x 8 bit, DIP, 32 P	1102-000191	
	U3	SRAM, 62256B, 32k x 8 bit, SOP, 28 P	1106-000197	
	U5	OP AMP, GL4558D/T	1201-000189	
	U6	OP AMP, GL4558D/T	1201-000189	
	U7	OP AMP, GL4558D/T	1201-000189	
	U8	Analog Switch, MC14053BD, SOP, 16 P	1001-000171	
	U9	Reset, 7045, 3 P	1203-000495	
	U10	Audio AMP, 386, SOP, 8 P	1201-000114	
	U11	Analog Switch, MC14051BD, SOP, 16 P	1001-000170	
	U12	Photo-Coupler, PC817, 200 mW, DIP-4	0604-000119	
	U13	Photo-Coupler, PC817, 200 mW, DIP-4	0604-000119	
	U14	Photo-Coupler, PC814, 200 mW, DIP-4	0604-000118	
	U17	TR-Array, UL2003L, NPN, SOP-16, ST	0506-000182	

	Ref. No.	Description	SEC Code	Remark
		- Resistors -		
	R1	Chip, 470 ohm, J, 1/10 W, 2012	2007-000931	
	R2	Chip, 470 ohm, J, 1/10 W, 2012	2007-000931	
	R3	Chip, 470 ohm, J, 1/10 W, 2012	2007-000931	
	R4	Chip, 34.8 kohm, F, 1/10 W, 2012	2007-000784	
	R5	Chip, 34.8 kohm, F, 1/10 W, 2012	2007-000784	
	R6	Chip, 100 kohm, J, 1/10 W, 2012	2007-000282	
	R8	Chip, 10 kohm, J, 1/10 W, 2012	2007-000300	
	R9	Chip, 10 kohm, J, 1/10 W, 2012	2007-000300	
	R10	Chip, 10 kohm, J, 1/10 W, 2012	2007-000300	
	R12	Chip, 10 kohm, J, 1/10 W, 2012	2007-000300	
	R13	Chip, 10 kohm, J, 1/10 W, 2012	2007-000300	
	R14	Chip, 4.7 kohm, J, 1/10 W, 2012	2007-000872	
	R15	Chip, 4.7 kohm, J, 1/10 W, 2012	2007-000872	
	R16	Chip, 4.7 kohm, J, 1/10 W, 2012	2007-000872	
	R17	Chip, 330 kohm, J, 1/10 W, 2012	2007-000757	
	R31	Chip, 220 ohm, J, 1/10 W, 2012	2007-000572	
	R32	Chip, 220 ohm, J, 1/10 W, 2012	2007-000572	
	R33	Chip, 300 ohm, J, 1/10 W, 2012	2007-000728	
	R34	Chip, 1 kohm, J, 1/10 W, 2012	2007-000468	
	R36	Chip, 3 kohm, J, 1/10 W, 2012	2007-000844	
	R37	Chip, 470 ohm, J, 1/10 W, 2012	2007-000931	
	R38	Chip, 470 ohm, J, 1/10 W, 2012	2007-000931	
	R39	Chip, 470 ohm, J, 1/10 W, 2012	2007-000931	
	R40	Chip, 470 ohm, J, 1/10 W, 2012	2007-000931	
	R42	Chip, 470 ohm, J, 1/10 W, 2012	2007-000931	
	R43	Chip, 470 ohm, J, 1/10 W, 2012	2007-000931	
	R44	Chip, 82 ohm, J, 1/10 W, 2012	2007-001216	
	R45	Chip, 82 ohm, J, 1/10 W, 2012	2007-001216	
	R46	Chip, 82 ohm, J, 1/10 W, 2012	2007-001216	
	R47	Chip, 82 ohm, J, 1/10 W, 2012	2007-001216	
	R48	Chip, 82 ohm, J, 1/10 W, 2012	2007-001216	
	R49	Chip, 82 ohm, J, 1/10 W, 2012	2007-001216	
	R50	Chip, 82 ohm, J, 1/10 W, 2012	2007-001216	
	R51	Chip, 20 ohm, J, 1/4 W, 3225	2007-001289	
	R52	Chip, 300 ohm, J, 1/10 W, 2012	2007-000728	
	R53	Chip, 0 ohm, J, 1/10 W, 2012	2007-000029	
	R54	Chip, 0 ohm, J, 1/10 W, 2012	2007-000029	
	R55	Chip, 150 kohm, J, 1/10 W, 2012	2007-000395	
	R56	Chip, 86.6 kohm, F, 1/10 W, 2012	2007-001220	
	R57	Chip, 86.6 kohm, F, 1/10 W, 2012	2007-001220	
	R58	Chip, 86.6 kohm, F, 1/10 W, 2012	2007-001220	

	Ref. No.	Description	SEC Code	Remark
	R59	Chip, 1 Mohm, J, 1/10 W, 2012	2007-000477	
	R60	Chip, 1 Mohm, J, 1/10 W, 2012	2007-000477	
	R61	Chip, 3 kohm, J, 1/10 W, 2012	2007-000844	
	R62	Chip, 82 kohm, J, 1/10 W, 2012	2007-001208	
	R63	Chip, 3 kohm, J, 1/10 W, 2012	2007-000844	
	R64	Chip, 3.9 kohm, J, 1/10 W, 2012	2007-000710	
	R65	Chip, 6.2 kohm, J, 1/10 W, 2012	2007-001055	
	R66	Chip, 9.1 kohm, J, 1/10 W, 2012	2007-001224	
	R67	Chip, 15 kohm, J, 1/10 W, 2012	2007-000409	
	R68	Chip, 15 kohm, J, 1/10 W, 2012	2007-000409	
	R69	Chip, 47 kohm, J, 1/10 W, 2012	2007-000941	
	R70	Chip, 39 kohm, J, 1/10 W, 2012	2007-000830	
	R71	Chip, 34.8 kohm, J, 1/10 W, 2012	2007-000784	
	R72	Chip, 34.8 kohm, J, 1/10 W, 2012	2007-000784	
	R73	Chip, 300 ohm, J, 1/10 W, 2012	2007-000728	
	R74	Chip, 10 ohm, J, 1/10 W, 2012	2007-000308	
	R75	Chip, 118 kohm, J, 1/10 W, 2012	2007-000325	
	R76	Chip, 22 kohm, J, 1/10 W, 2012	2007-000586	
	R77	Chip, 47 kohm, J, 1/10 W, 2012	2007-000941	
	R79	Chip, 100 kohm, J, 1/10 W, 2012	2007-000282	
	R80	Chip, 300 ohm, J, 1/10 W, 2012	2007-000728	
	R83	75 ohm, J, 1/4 W, AA	2001-000025	
	R84	10 ohm, J, 1/4 W, AA	2001-000110	
	R85	Chip, 300 ohm, J, 1/10 W, 2012	2007-000728	
	R86	Chip, 4.7 kohm, J, 1/10 W, 2012	2007-000872	
	R87	Chip, 75 kohm, J, 1/10 W, 2012	2007-000002	
	R88	Chip, 15 kohm, J, 1/10 W, 2012	2007-000409	
	R89	Chip, 20 kohm, J, 1/10 W, 2012	2007-000546	
	R90	Chip, 0 ohm, J, 1/10 W, 2012	2007-000029	
	R92	Chip, 10 kohm, J, 1/10 W, 2012	2007-000300	
	R93	220 ohm, J, 1/4 W, AA	2001-000034	
		- Miscellaneous -		
	Q1	Small Signal, KSC5019, NPN, 750mW	0501-000385	
	Q2	Small Signal, KSA1182, PNP, 150mW	0501-000279	
	ARR2	Varistor, 600 V, 500 A, 7.0 x 3.3 mm, TP	1405-001009	
	ARR3	Varistor, 600 V, 500 A, 7.0 x 3.3 mm, TP	1405-001009	
	FLT1	Coil-Filter, 60 µH, 50 mohm, 18 T	JF27-60051A	
	FLT2	Coil-Filter, 60 µH, 50 mohm, 18 T	JF27-60051A	
	FLT4	Coil-Filter, 60 µH, 50 mohm, 18 T	JF27-60051A	
	FLT5	Coil-Filter, 60 µH, 50 mohm, 18 T	JF27-60051A	
	L1	Inductor, Chip, 3.3 µH, 5 %	2703-000185	
	MJ1	Modular-Jack, 6P/6C, Ivory	3722-000255	

	Ref. No.	Description	SEC Code	Remark
	MJ2	Modular-Jack, 6P/6C, Ivory	3722-000255	
	X1	Crystal, 32.768 kHz, 5 ppm	2801-001498	
	X2	Crystal, 24.00014 MHz, 50 ppm	2801-001528	
	BAT	Battery-LI, 3V, 210mAH, Button	4301-000108	
	PCB	PCB, MAIN, Blank		

7-2. LIU PBA

	Ref. No.	Description	SEC Code	Remark
		PBA, PCB Assembly, LIU	**JF92-00843A**	
		- Capacitors -		
	C201	Electrolytic, 1 µF, M, 50 V, GP	2401-000597	
	C202	Electrolytic, 100 µF, M, 25 V, GP	2401-000310	
	C203	Electrolytic, 330 nF, M, 50 V, GP	2401-001087	
	C206	Film, MPEF, 1 µF, K, 250 V	2305-000505	
	C207	Electrolytic, 100 µF, M, 25 V, GP	2401-000310	
	C208	Electrolytic, 470 µF, M, 16 V, GP	2401-001368	
	C209	Electrolytic, 22 µF, M, 50 V, GP	2401-000966	
	C210	Electrolytic, 10 µF, M, 50 V, GP	2401-000486	
	C212	Film, MPEF, 15 nF, M, 630 V	2305-000199	
	C214	Electrolytic, 10 µF, M, 50 V, GP	2401-000486	
	C216	Film, PEF, 47 nF, K, 50 V	2301-000278	
	C217	Electrolytic, 1 µF, M, 50 V, GP	2401-000597	
	C218	Electrolytic, 100 nF, M, 50 V, GP	2401-000217	
	C220	Ceramic, Chip, 2.2 nF, K, 50 V	2203-000499	
	C221	Ceramic, Chip, 100 pF, J, 50 V	2203-000242	
	C222	Ceramic, Chip, 100 pF, J, 50 V	2203-000242	
	C223	Ceramic, Chip, 1 nF, J, 50 V	2203-000457	
	C225	Ceramic, Chip, 33 nF, K, 50 V	2203-000805	
	C226	Ceramic, Chip, 10 nF, K, 50 V	2203-000262	
	C227	Ceramic, Chip, 1 nF, J, 50 V	2203-000457	
	C228	Ceramic, Chip, 15 nF, K, 50 V	2203-000376	
	C229	Ceramic, Chip, 33 nF, K, 50 V	2203-000805	
	C230	Ceramic, Chip, 1 nF, J, 50 V	2203-000457	
	C231	Ceramic, Chip, 100 nF, K, 50 V	2203-001450	
	C232	Ceramic, Chip, 10 nF, K, 50 V	2203-000262	
	C233	Ceramic, Chip, 10 nF, K, 50 V	2203-000262	
	C234	Ceramic, Chip, 1 nF, J, 50 V	2203-000457	
	C235	Ceramic, Chip, 1 nF, J, 50 V	2203-000457	
	C236	Ceramic, Chip, 100 pF, J, 50 V	2203-000242	
	C239	Ceramic, Chip, 3.3 nF, K, 50 V	2203-000717	
	C240	TA, Chip, 1 µF, M, 10 V	2404-000291	
	C241	Ceramic, Chip, 1 nF, J, 50 V	2203-000457	
	C242	Ceramic, Chip, 10 nF, K, 50 V	2203-000262	
	C243	Ceramic, Chip, 15 nF, K, 50 V	2203-000376	
	C244	Ceramic, Chip, 100 pF, K, 50 V	2203-000242	
	C247	Ceramic, Chip, 100 pF, K, 50 V	2203-000242	
	C248	Ceramic, Chip, 100 pF, K, 50 V	2203-000242	
	C249	Ceramic, Chip, 68 nF, K, 50 V	2203-001145	

	Ref. No.	Description	SEC Code	Remark
	C250	Ceramic, Chip, 100 pF, K, 50 V	2203-000242	
	C251	Ceramic, Chip, 100 pF, K, 50 V	2203-000242	
		- Connectors -		
	P201	Header, Box, 4 P	3711-000968	
	P202	Header, Box, 7 P	3711-002808	
	P203	CBF-MAIN, Flat	JF39-41063A	
	P205	Header, 3 Wall, 11 P	3711-000404	
	P206	CBF-MAIN, Flat	JF39-41063A	
		- Diodes -		
	BD201	Bridge, W06F, 600 V	0402-000338	
	D201	Switching, 1N4148	0401-000140	
	D203	Array, 1SS226, 80 V	0407-000122	
	D204	Array, 1SS226, 80 V	0407-000122	
	D205	Array, 1SS226, 80 V	0407-000122	
	D206	Array, 1SS226, 80 V	0407-000122	
	ZD201	Zener, 1N4740A, 10 V	0403-000532	
	ZD202	Zener, 1N4734A, 5.6 V	0403-000139	
	ZD203	Zener, 1N4749A, 24 V	0403-000537	
	ZD205	Zener, 1N4740A, 10 V	0403-000532	
	ZD206	Zener, MMBZ5230B, 4.7 V	0403-000280	
	ZD207	Zener, MMBZ5230B, 4.7 V	0403-000280	
		- Resistors -		
	R201	Carbon, 300 ohm, J, 1/4 W	2001-000626	
	R203	Carbon, 10 Mohm, J, 1/4 W	2001-000294	
	R204	Carbon, 1.2 kohm, J, 1/4 W	2001-000044	
	R205	Carbon, 330 kohm, J, 1/4 W	2001-000643	
	R207	Chip, 100 kohm, J, 1/8 W	2007-000285	
	R208	Chip, 15 kohm, J, 1/8 W	2007-000412	
	R209	Chip, 100 kohm, J, 1/8 W	2007-000285	
	R210	Chip, 6.8 kohm, J, 1/8 W	2007-001073	
	R211	Chip, 0 ohm, J, 1/8 W	2007-000033	
	R212	Chip, 200 kohm, J, 1/8 W	2007-000534	
	R214	Chip, 6.8 kohm, J, 1/8 W	2007-001073	
	R215	Carbon, 30 ohm, J, 1/2 W	2001-000637	
	R217	Chip, 100 kohm, J, 1/8 W	2007-000285	
	R218	Chip, 0 ohm, J, 1/8 W	2007-000033	
	R219	Chip, 470 kohm, J, 1/8 W	2007-000927	
	R220	Chip, 0 ohm, J, 1/8 W	2007-000033	
	R221	Chip, 470 kohm, J, 1/8 W	2007-000927	
	R222	Chip, 2.2 Mohm, J, 1/8 W	2007-000500	
	R223	Chip, 2.2 Mohm, J, 1/8 W	2007-000500	
	R225	Chip, 18 kohm, J, 1/8 W	2007-000459	

	Ref. No.	Description	SEC Code	Remark
	R226	Chip, 33 kohm, J, 1/8 W	2007-000777	
	R227	Chip, 0 ohm, J, 1/8 W	2007-000033	
	R229	Chip, 300 ohm, J, 1/8 W	2007-000730	
	R230	Chip, 3 kohm, J, 1/8 W	2007-000846	
	R231	Chip, 0 ohm, J, 1/8 W	2007-000033	
	R232	Chip, 8.2 kohm, J, 1/8 W	2007-001180	
	R235	Chip, 1 kohm, J, 1/8 W	2007-000472	
	R237	Chip, 3 kohm, J, 1/8 W	2007-000846	
	R238	Chip, 3.3 kohm, J, 1/8 W	2007-000688	
	R239	Chip, 1 kohm, J, 1/8 W	2007-000472	
	R243	Chip, 0 ohm, J, 1/8 W	2007-000033	
	R245	Chip, 30 kohm, J, 1/8 W	2007-000740	
	R246	Chip, 330 kohm, J, 1/8 W	2007-000761	
	R247	Chip, 300 ohm, J, 1/8 W	2007-000730	
	R249	Chip, 680 ohm, J, 1/8 W	2007-001121	
	R250	Chip, 0 ohm, J, 1/8 W	2007-000033	
		- Transistors -		
	Q201	Power, PNP, 2SA1156	0502-000133	
	Q203	Small Signal, NPN, BC327-16	0501-000550	
	Q204	Small Signal, NPN, MPSA45	0501-000500	
	Q206	Small Signal, NPN, BC327-16	0501-000550	
	Q207	Small Signal, NPN, BC547B	0501-000242	
		- Miscellanceous -		
	FET201	FET-Silicon, 60 V, BS170	0505-000123	
	T201	Trans-Matching	JF26-50002A	
	T202	Trans-Matching	JF26-50001A	
	T203	Trans-Matching	JF26-50001A	
	U201	ASIC, ILIU, STI9510	JF13-10073A	
	U202	Photo Coupler, TR, LTV817	0604-000119	
	VAR201	Varistor, 82 V, 1200 A, V82ZA2	1405-000170	
	X201	Resnator, Ceramic, 3.58M	2802-001029	
	CML201	Relay-Miniature, 24 Vdc	3501-001029	
	PCB	PCB, LIU, Blank		
	J201	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J202	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J203	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J204	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J205	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J206	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J207	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J208	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J209	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	

	Ref. No.	Description	SEC Code	Remark
	J210	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J211	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J212	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J213	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J214	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J215	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J216	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J217	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J218	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J219	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J220	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J221	Resistor, Chip, 0 ohm, J, 1/8 W	2007-000033	
	JMP201	Wire-Jumper, No sheath		
	JMP202	Wire-Jumper, No sheath		
	JMP203	Wire-Jumper, No sheath		
	JMP204	Wire-Jumper, No sheath		
	JMP205	Wire-Jumper, No sheath		
	JMP206	Wire-Jumper, No sheath		
	JMP207	Wire-Jumper, No sheath		
	JMP208	Wire-Jumper, No sheath		
	JMP209	Wire-Jumper, No sheath		

7-3. OPE PBA

	Ref. No.	Description	SEC Code	Remark
		ASSEMBLY, OPE	**JF92-00844A**	
		- Capacitors -		
	C301	Ceramic, Chip, 100 pF, J, 50 V	2203-000242	
	C302	Ceramic, Chip, 100 nF, K, 50 V	2203-001450	
		- Diodes -		
	D301	Switching, MMSD914T1	0401-000116	
	D302	Resister, Chip, 0 ohm, J, 1/8 W	2007-000033	
	D303	Resister, Chip, 0 ohm, J, 1/8 W	2007-000033	
	D304	Switching, MMSD914T1	0401-000116	
	LED303	LED, Chip, Red, 60 mW, 2 V	0601-000208	
		- Resistors -		
	R301	Chip, 300 ohm, J, 1/8 W	2007-000730	
	R302	Chip, 10 kohm, J, 1/8 W	2007-000303	
	R303	Chip, 1 kohm, J, 1/8 W	2007-000472	
	R306	Chip, 10 kohm, J, 1/8 W	2007-000303	
	R307	Chip, 10 kohm, J, 1/8 W	2007-000303	
	R308	Chip, 10 kohm, J, 1/8 W	2007-000303	
	R309	Chip, 10 kohm, J, 1/8 W	2007-000303	
	R310	Chip, 300 ohm, J, 1/8 W	2007-000730	
	R311	Chip, 300 ohm, J, 1/8 W	2007-000730	
	R312	Chip, 10 kohm, J, 1/8 W	2007-000303	
		- Miscellanceous -		
	J301	Resister, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J302	Resister, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J303	Resister, Chip, 0 ohm, J, 1/8 W	2007-000033	
	J304	Resister, Chip, 0 ohm, J, 1/8 W	2007-000033	
	P301	CBF, Harness, Wire	JF39-40957A	
	P302	CBF, MAIN, Flat	JF39-41064A	
	P303	CBF, MAIN, Flat	JF39-41064A	
	P304	Connector, Header, Box, 3 P	3711-000906	
	Q301	Small Signal, NPN, KSC1623-Y	0501-000342	

7-4. HOOK PBA

	Ref. No.	Description	SEC Code	Remark
		Assembly, HOOK	**JF92-00845A**	
	PCB	PCB, Blank, HOOK		
	SW1	Switch, Hook, SPPY43-B-S-01	3409-000117	
	P1	Connector, Header, 11 Pin	JF39-41065A	

7-5. D.DET PBA

	Ref. No.	Description	SEC Code	Remark
		Assembly, D.DET	JF39-40956A	
	PCB	PCB, Blank, D.DET		
	SEN1	Photo-Interrupter	0604-000230	
	P1	Harness, Main-D.DET	JF39-40956A	

7-6. P.EMPTY PBA

	Ref. No.	Description	SEC Code	Remark
		Assembly, P.EMPTY	**JF92-00704B**	
	PCB	PCB, Blank		
		Photo-Reflect Sensor, TLP908(LB)	0604-000246	
		Harness, P,EMPRY-Main	JF39-40960A	

7-7. HANDSET PBA

	Ref. No.	Description	SEC Code	Remark
		ASSEMBLY, HANDSET PCB	**JF92-00625A**	
	PCB	PCB, Blank, Handset		
	ZD1	Diode, Zener, 1N4736A	0403-000142	
	MIC	Mic, Condensor	3003-000103	

7-8. OTHERS

	Ref. No.	Description	SEC Code	Remark
		Display-LCD	JF07-20061A	
		LCD Harness	JF39-41018A	
		Harness, Main-OPE, RED	JF39-41064A	
		Harness, Main-OPE, BK/RD	JF39-40957A	
		Harness, Main-TPH	JF39-40955A	
		Thermal Print Head (TPH)	JF47-30069A	
		Earth Wire, Motor-Power, GRN	JF39-40963B	
		Harness, Main-CIS	JF39-4106A	
		Contact Image Sensor (CIS)	0609-001059	
		Motor-Step, 24V, 200 pps	3101-000143	
		Switch-Micro, 16V, 1A, SPST	3405-000166	
		Cord-Power	GA39-10100A	
		Cord-Curl	JF39-50054B	
		Cord-Tel Line	JF39-50079A	
		Power Supply, AC220 V	JF44-10059A	

7-9 Power Supply (SEC Code: JF44-10059A)

	Location No	Description	Part No	Vendor	SEC Code
	Q1	FET-N 800 V, 5 A	SSP5N80A	SEC	
	Q2	TR 60 V, 0.7 A	KSC1008-Y	SEC	
	Q3	TR 50 V, 0.15A	KSC945CY KTC3198	SEC KEC	
	Q4	TR 60 V, 0.7 A	KSC1008-Y	SEC	
	Q5	FET-P -60 V, 14 A	2SJ303	NEC	
⚠	U1	IC-Regulator -12 V, 0.5 A	KA79M12	SEC	
	U2	IC Regulator 5 V, 1.0 A	KA7805 KIA7805P	SEC KEC	
⚠	PC1	Photo Coupler 5.0 kVAac, 50 mA	PC123FY2	SHARP	
	BD1	Diode-Bridge 600 V, 4 A	D3SB60 RBV406	SHINDENGEN SANKEN	
	D1	Diode-FR 1 kV, 1 A, 75 ns	UF4007 RG1C	GI SANKEN	
	D2	Diode-Switching 100 V, 150 mA, 500 mW	1N4148 1N4148	ROHM-KOREA UNIZON	
	D3	Diode-Rec 200 V, 10 A	D10LC20U	SHINDENGEN	
	D4	Diode-FR 200 V, 1 A	D1NL20U EGP10D	SHINDENGEN GI	
	D5	Diode-FR 200 V, 1 A	D1NL20U EGP10D	SHINDENGEN GI	
	ZD1	Diode-Zener 0.5 W, 20 V	MTZ20C UZ20BSC	ROHM-KOREA UNIZON	
	ZD2	Diode-Zener 0.5 W, 5.1 V	MTZ5.1C UZ5.1BSC	ROHM-KOREA UNIZON	
	ZD3	Diode-Zener 0.5 W, 6.2 V	MTZ6.2C UZ6.2BSC	ROHM-KOREA UNIZON	
	C1	CAP-Y, AC400 V, 332M	HCYEG332MAA SCE2G332M	SEMCO SAMHWA	
	C2	CAP-Y, AC400 V, 332M	HCYEG332MAA SCE2G332M	SEMCO SAMHWA	
	C3	CAP-X 275 V, 224	PCX2 335 224 KNB 1530 224	PIL-KOR ISKRA	

	Location No	Description	Part No	Vendor	SEC Code
	C5	CAP-ELEC 400 V, 120 uF	SMH400V120uF HC400V120uF	SAMYOUNG SAMHWA	
	C6	CAP-Y, AC400 V, 332M	HCYEG332MAA SCE2G332M	SEMCO SAMHWA	
	C7	CAP-X 275 V, 334	PCX2 335 334 KNB 1530 334	PIL-KOR ISKRA	
	C8	CAP-M.F 630 V, 333K	MMW2J333K TM2J333K	DONGSUNG SAMHWA	
	C9	CAP-CERAMIC 1 kV, 221K	CKR3A221K06BS HCYE3A221KB	SAMHWA SEMCO	
	C10	CAP-FILM 50 V, 183J	TS1H183J TY1H183J	SAMHWA SAMHWA	
	C11	CAP-FILM 50 V, 223J	TS1H223J TY1H223J	SMAHWA SAMHWA	
	C12	CAP-CERAMIC 50 V, 222J	TS1H222J TY1H222J	SAMHWA	
	C13	CAP-ELEC 35 V, 470 uF	SXA35V470uF RX35V470uF	SAMYOUNG SAMHWA	
	C15	CAP-ELEC 35 V, 470 uF	SXA35V470uF RX35V470uF	SAMYOUNG SAMHWA	
	C16	CAP-ELEC 10 V, 1200 uF	SXE10V1200uF RX10V1200uF	SAMYOUNG SAMHWA	
	C17	CAP-ELEC 16 V, 680 uF	KME16V680UF SG16V680UF	SAMYOUNG SAMHWA	
	C18	CAP-ELEC 35 V, 100 uF	SXE35V100uF RX35V100uF	SAMYOUNG SAMHWA	
	C19	CAP-ELEC 35 V, 33 uF	SMS35V33uF SG35V33uF	SAMYOUNG SAMHWA	
	C20	CAP-ELEC 35 V, 470 uF	SXE35V470uF RX35V470uF	SAMYOUNG SAMHWA	
	C23	CAP-ELEC AC400 V, 472M	HCYE2G472MAD SDE2G472M	SEMCO SAMHWA	
	TNR1	VARISTOR	SVC471D-10A JVR-10N471K	SAMHWA JOYIN	
	R1	R-CARBON	1/4W 560K-J	ABCO PIL-KOR	
	R2	R-CARBON	1/2W 470K-J	ABCO PIL-KOR	
	R3	R-CARBON	1/2W 470K-J	ABCO PIL-KOR	
	R4	R-METAL OXIDE	2W 100K-J MINI	ABCO PIL-KOR	

	Location No	Description	Part No	Vendor	SEC Code
	R5	R-WIRE WOUND	1W 0.35-J	HANMI JAEYOUNG	
	R6	R-METAL OXIDE	2W 390-J	PIL-KOR ABCO	
	R7	R-CARBON	1/4W 3.9-J	ABCO PIL-KOR	
	R8	R-CARBON	1/4W 27K-J	ABCO PIL-KOR	
	R9	R-CARBON	1/4W 1K-J	ABCO PIL-KOR	
	R10	R-METAL OXIDE	2W 820J	ABCO PIL-KOR	
	R11	R-CARBON	1/8W 3.9K-J	ABCO PIL-KOR	
	R12	R-CARBON	1/2W 1K-J	ABCO PIL-KOR	
	R13	R-METAL	1/4W 6.8-J	ABCO PIL-KOR	
	R14	R-METAL	1/4W 2.55K-F	ABCO PIL-KOR	
	R15	R-METAL	1/4W 6.8-J	ABCO PIL-KOR	
	R16	R-CARBON	1/8W 1.5KJ	ABCO PIL-KOR	
	NT1	Thermistor 10 ohm	DCS10D-9 KL09L-010	SHINHO SANGSHIN	
	BEAD1	EMI BEAD FILTER	2FBC3560130TR	SEMCO	
	BEAD2	EMI BEAD FILTER	BFD3510R2F	SAMHWA	
	CON1	Connector, 10 P	GIL-D-10S-S3LA2-A	LG	
	T1	TRANSFORMER EER 28/34	ALPS-2	ZION ASEA	
	LF1	LINE FILTER	SQ40105	ZION ASEA	
	L1	CHOCK COIL		ZION ASEA	
	F1	Fuse Glass 250 V, 2.0 A	50T020H	TRAID	
	INLET	IN LET, 250 V, 6 A	EAC-409-030 ACR303B10	SWITCHCRAFT TSC	